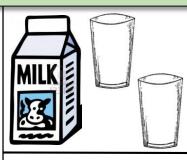
Fluency



A jug contains some milk.

Josh pours $\frac{1}{2}$ of the milk into a glass.

Josh pours $\frac{3}{10}$ of the milk into another glass. What fraction of the milk is left?

Use diagrams to show what happens when you try to add:

$$^{1}/_{5} + ^{2}/_{10}$$

Show the different steps.

Work out the following:

1.
$$\frac{3}{4} + \frac{2}{5}$$

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$$\frac{3}{4} + \frac{2}{5}$$
 2. $\frac{10}{12} - \frac{1}{3}$ **3.** $\frac{6}{8} + \frac{3}{5}$ **4.** $\frac{1}{8} - \frac{3}{4}$

3.
$$\frac{6}{8} + \frac{3}{5}$$

4.
$$\frac{1}{8} - \frac{3}{4}$$

5.
$$\frac{3}{7}$$
 - $\frac{1}{5}$

6.
$$\frac{2}{10} + \frac{3}{8}$$

5.
$$\frac{3}{7}$$
 - $\frac{1}{5}$ **6.** $\frac{2}{10}$ + $\frac{3}{8}$ **7.** 4 $\frac{4}{9}$ + 2 $\frac{5}{6}$ **8.** 5 $\frac{3}{7}$ - 2 $\frac{6}{5}$

8.
$$5^{3}/_{7} - 2^{6}/_{5}$$

Reasoning

Bashir says:

"I do not need to do any written calculations to solve $^{4}/_{8} + ^{2}/_{4}$ "

Do you agree?

Explain how you know.

Emily says:

"When you add fractions together the answer is actually smaller because when the numerator is a bigger number the piece is actually smaller."

What mistake has Emily made?

Explain your answer using a diagram.

Rajesh doesn't understand why the denominator doesn't change when adding fractions but the numerator does.

Can you explain why?

Problem Solving

If the answer to a word problem involving subtracting fractions with different denominators is:

 $^{14}/_{32}$

What could the question be?

Katie subtracted $\frac{3}{5}$ away from a fraction and her answer was 8/45.

What was the original question?